, Up and Blocking Large Deposits on en Levels in 1912 Propitious.

USINESSLIKE PERATING SYSTEM

sFrenzied High-Grade of Evolution and entes Wild-Cat Proers and Methods.

ILD, Nev., Dec. 28.-Minreations in the Goldfield st caring the year 1912 have of a character better calcute stablish the permanency and its mines than any that stetaken in the past. This of the fact that the mines have worked, as during the size of the tempty of size of the tempty of great to extend to great expent now has for its foresteement of the large amount any work that has been actually a series of high-grade ore, in some still of frequent or sided in common with Cripations are still of frequent or sided in common with Cripations are still of frequent or sided in common with Cripations are still of frequent or side of the turing the year 1912 have

state laws that effectual wid-cat promoter and his as placed its chief indusseand, safe and substantial

verles and remarkable Golderld may be credited to the leasing system. and mining companies have by many persons for doing beystem, for refusing to a These persons should con-be however, that only in the boom times and only when het pleatiful for investment south say, for actual gam-th leasing system operate and magnitude such as pre-balled from 1905 to 1998. balled from 1905 to 1908.

Indiv be expected that the rand that has been proved an ore will lease this ground the opportunity of taking in practically in sight. As fact, inside ground can still take lease; ground that is ground than most of that is the early days of the tar better terms and, relater to the star better terms and, relater to the star better terms and, relater terms.

d stoping beyond cer-d limits. When the creeted they were only free milling ores amenable to treatment occases. As depth was were found, but mill-ciency have see were found, but milldeficiency have kept pace
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illon the most important the year in the Goldfield in its entire history, has a collection of ore deep to the bodies of the comparison of the second of the bodies of the district and have of the district and have of the district and have or stage of productiveness to stage of productiveness to stage of productiveness to stage of productiveness to stage of productiveness and the bodies of the spand combination mines many.

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ore. The company has paid upward of \$21,000,000 in dividends, and this does not include several millions more in profits that were divided among the lessess on the Mohawk, Red Top, Combination and Jumbo. All of the company's dividends were paid within a period of five years.

Merger Mines.

Merger Mines.

Of all work conducted in the Goldfield district in recent months, that of the Goldfield Merger Mines company has attracted the greatest interest by reason of its scope and the fact that it is in practically unexplored territory. The control of this company was acquired by the Goldfield Deep Mines company, a \$10,000,000 corporation, organized and financed by former Senator William A. Clark of Montana and his associates, who provided a cash fund of \$250,000 for the development of the property, a merger of the St. Ives, Velvet, Potlatch and Gold Horn properties.

The Merger company proceeded to entarge and continue the main St. Ives shaft, which is now down 1400 feet and will be sunk to a depth of 2000 feet. The mine is equipped with one of the best plants in the entire country and is under highly capable management, the directors, before starting this work, having sent their manager, L. H. Metzgar, to Montana, Colorado and to the Lake Superior country, in order that he might familiarize himself with the latest methods of machinery.

With the main shaft down 1400 feet it was decided to drive a cross-cuit to the west on the 1330-foot level, to con-

With the main shaft down 1400 feet it was decided to drive a cross-cut to the west on the 1320-foot level, to connect for ventilation with the 1200 level of the Grizzly Bear mine of the Consolidated. Shaft work was suspended pending the completion of this cross-cut, which has made the connection and has passed through two large quartz fissures, yielding good assays, and which will now be thoroughly explored. A strong flow of water from the first of these fissures is being readily handled by the new pumping plant. This cross-cut has made rapid progress when in good ground, being driven 16 feet in one day.

good ground, being driven 16 feet in one day.

By agreement with the Jumbo Extension company the Merger Mines company has secured the joint use of the Polverde or main shaft of the former company and is now driving from these workings, on the 800 and 940-foot levels, following the main vein into the Velvet claim and in good ore. The drifts will be driven to points where, by raising, connection may be made with the main velvet shaft. 700 feet deeper, and a main avenue for production afforded. This will place the Merger company in a position to immediately begin producing pay ore and to develop additional territory, but this work will in no way interfere with that in progress on the St. Ives claim. The Merger company has secured the selitement, in its favor, of all litigation in which it has been involved, none of it of a serious nature.

#### Jumbo Extension.

From a rather obscure prospect the Jumbo Extension company's Poleverde mine has developed during the year into a producing mine of the first rank in the district, next to the Consolidated.

a producing mine of the first rank in the district, next to the Consolidated. Ore bodies of large volume and excellent average grade have been opened on various levels, the company has secured milling facilities in the acquisition of the Bomie Clare mill, 36 miles south of Goldfield, and its present ore reserves are estimated to be sufficient to supply the mill, at the rate of 2000 tons monthly, for more than a year.

Together with its ore of milling grade, this mine is producing material that is being shipped directly to the sampler of the Western Ore Purchasing company, the principal purchaser of custom ores in Nevada. The main ore bodies are opened down to the 950-foot level and development is being extended to open them on the deepest or 1012-foot level. The main Clermont veln is said to traverse this ground, which is believed by many to have the making of one of the best mines in the state. The deepest workings have exposed the best ore and the first ore broken for shipment on the \$50-foot level sampled \$85 per ten. Concentrate from the mill is being shipped to the International smelter at the rate of 125 tons monthly.

# Florence Goldfield.

the early days of the air setter terms and, relative grofitably.

The Grade Days.

The training acts and the state of the main shaft, although there has been a considerable output of shipping ore from a large deposit of high-grade that was opened between the fifth and seventh levels. Some of this ore has averaged up to \$250 per too in gold, accessibility, could not be a profit. Most of the leases a mountain the less must not be removed impelies by the leases and mand stoping beyond certaining a large tomage of excellent milling ore that remains standing to await milling facilities.

The main shaft of the Florence was sunk to a depth of 1270 feet and a large

ing facilities.

The main shaft of the Florence was sunk to a depth of 1270 feet and a large station has been completed on the 1200-foot level from which the surrounding territory will be explored during the coming year. Development will be conducted at other levels as well, as the shaft passed through several sections of highly mineralized ground containing seams of ore.

# Lone Star "Con."

Active work was started during the year on the property of the Lone Star Consolidated company, which has been reorganized and placed upon the assessable stock basis, in common with a number of other Goldfield companies, which, by this means, have been enabled to resume mining operations. The Lone Star is now classed as the best non-producing prospect in the district and the company is developing at two points, is obtaining some high assays from its work on the Patrick claim, and has a property in Mono county, California, upon which some ore of excellent grade has been exposed recently. It has sufficient funds in its treasury, realized from the assessment levied upon exchanging stock of the old company for that of the new, to carry on its operations for a considerable period, its property is well equipped with mining machinery and the management is capable silver Pick.

# Silver Pick.

Silver Pick.

The Silver Pick, another company that has been reorganized on the assessable plan, is now developing its ground, near the boundary lines of the Mohawk and Combination claims of the Consolidated, and in exploring veius that have a trend toward these bonanza properties. On the Combination Fraction property lessees are now operating at two points and are said to be taking out ore of good grade. The Bine Bull and Booth companies, both of which are controlled by George Wingfield, president of the Goldfield Consolidated, have likewise been reorganized and are undergoing development on company account, while the Sandstorm-Kendall Consolidated, in the same position and one of the early-day bonanzas of the camp, is being explored at depth.

The Atlanta Mines company, also reorganized, has been financed by an association of the most prominent rolining men in the west, including George Wingfield, Thomas Kearns of Utah, C. B. Zabriskie, Clyde A. Heller, F. M. (Borax) Smith, A. H. Howe and Charles Knox Development of this property is awalting the results of deep work on the adjoining Grizzly Bear and Merger Mines properties. The main workings of the C. O. D. Consolidated have been lessed to a company that is starting extensive operations and may erect a mill.

The Goldfield Oro has been working to some extent by lessees and a strong

THE MANHATTAN MINE DISTRICT

Year of 1912 Has Been a Period of Rapid Evolution; Now Among Foremost in Nevada.

LEASING SYSTEM IS IMPORTANT FACTOR

The Big Four Group Leads and Owners Are Building and Planning for Future Operations.

ANHATTAN, Nev., Dec. 28 .-The year 1912 has been for the Manhattan mining district a period of rapid evolution, from in which small quantities of rich had been found, the production a negligible factor, to one that now ranks among the foremost in the state in point of bullion output and tonnage of commercial ore in sight. This year has witnessed the real birth of the camp as a producer of importance. In 1906 the district had attracted the attention of mining men and investors, but most money for development had been subscribed by San Francisco men and after the fire and earthquake of that year no funds for mining were to be had, as a matter of course, from the California metropolis. It remained for eastern and Nevada men to open up the mines during the past year.

The leasing system, to which may be largely ascribed the making of Goldfield, Tonopah and other producing dis-tricts, has been an important factor in the development of mining properties, which might have remained idle and which might have remained idle and unexplored but for the activities of the lessees. The best mines in the district, including the Big Four, Consolidated, White Caps, Big Pine, Amalgamated and others, have first been opened by lessees and on the first-mentioned the Big Four lease was purchased by the owning company from the lessees for a large sum.

#### Big Four Group.

Of all the properties in the district the Big Four may claim supremacy, by reason of its production and the tounage of commercial ore in sight, and it is now classed as one of the best mines in Nevada. Prior to the taking over of the Big Four lease by the company the lessees, Poak, Steen and Cicala, had made a net production of about \$300,000, according to report, and while the work of the company since then has been devoted chiefly to development, a large quantity of ore has been placed on the dumps in ad-

dition to that blocked out and left standing in the mine.

Most of the equipment for the Big Four company's 125-ton mill is on the ground and the framework is already under some the second to the control of the second to the s eration soon after the middle of Januarv at latest. The company is having 1000 tons of \$20 ore treated at the Brady mill. It would be necessary to load and haul this ore to the company mill upon its completion and it has been decided to have it treated now and get it out of the way.

Development in the mine has shown the oro bodies to be of vast proportions. A drift on the hanging wall side of the vein, at the 100 foot level, has followed the ore for nearly 100 feet and cross-cuts show the ore to be eighteen feet wide in places, and to available to the contract of crage from \$12 to \$20 per ton and to carry seams of higher grade mate-rial. A cross-fissure opened lately is of large size and vields average assays of \$9 per ton. The 200-foot level has exposed large bodies of excellent milling ore, extending over a wide area, par-ticularly in what is known as the Glory-hole vein. On this level a cross-cut is nearing a vein from which some high-grade ore was taken, through an incline shaft from the surface.

# Assays Are High.

Deposits of great volume and of unusual value have been exposed at various points in the property. From the 400-foot level a raise has connected with intermediate drift for air and one of these drifts has exposed a body of ore that is said to be ten feet wide and to yield mino assays of \$75 per ton. Another drift near this point has followed a seam of calcite ore from which assays of over \$1000 per ton have been obtained. The ore has been opened at a point just above the 500-foot level and a pump, of 300,000 gallons daily capacity, has been installed on the 500-foot level, in such a manner that the drifts on this level may be allowed to fill with water, forming a reservoir in the event of power faila reservoir in the event of power fail-ure, but without interfering with the operation of the pump or other parts of the plant. There is now sufficient

the work of lessees, although the Gold-field Belmont has been working on a small scale on company account, the Vernal has exposed pay ore, with seams of high-grade, and has been shipping to the sampler, and the Diathondfield Black Butte, one of the most prolific properties in the early days, has done some work on company account and has exposed some shipping ore.

company that is starting extensive operations and may erect a mill.

The Goldfield Oro has been working to some extent by lessees and a strong eastern company has secured control and has financed extensive work, to include a financed extensive work, to include to the Consolidated claims. This ground has not been explored at depth but rich to relias been mined from adjoining ground near the boundary and it is regarded as valuable. On the Kabswgam group, adjoining the Consolidated on the west and owned by the Begole Mines Syndicate, ore of excellent grade has been found lately and it is probable that this ground will be developed on an extensive scale in the near future. The Nevada Eagle property and it is probable that this ground will be developed on an extensive scale in the near future. The Nevada Eagle property and its apparently destined to be a regular producer of sliver-gold ore. Work is in progress on the Third Chance property and the New Jersey Mines company is developing two properties.

In the Dalamondfield part of the district operations have been chiefly confined to operations and has a some exposed at mental property and its propagate and the second point of the Black Butte were suspended but will be resumed later as some ore of excellent grade was opened in these workings and this is generally regarded as the most valuable property in that part of the district, since it has a record of production of shipping ore.

The Ordinal has explosed at depth of the Black Butte were suspended but will be resumed later as some ore of excellent grade was opened in these workings and this is generally regarded as the most valuable property in that part of the district, since it has a record of production of shipping ore.

The Ordinal American America

ore of good grade opened and practi-cally blocked out on and above the 400-foot level to supply the new mill at full capacity for many months. The long tunnel from the adjoining Joker property, owned by the Big Four, will soon connect with the main Big Four

soon connect with the main Big Four shift at the 200-foot level, after which it will be necessary to raise to the collar of the shaft only such water as is required for the mill, the remainder running off through this tunnel.

The White Caps is proving to be a property of great worth and has already made a large production of good milling ore, together with some of shipping grade. The present output of approximately fifty tons deally is being sent to the Associated mill for treatment, the ore coming chiefly from stopes above the 165-foot level, cast of the shaft. There will be no difficulty, according to the management, in mainaccording to the management, in maincome, and the average value, indicated by past shipments, will be around \$15 per ton; a grade that can be made to yield a fair profit. The main shaft is to be continued from its present depth of 235 feet to a depth of 300 feet.

#### Amalgamated Ore.

A regular production of good ore is being made by the Amalgamated and the best of this product has been taken from the hanging-wall side of the stopes that were opened by lessees, who overlooked this material while they were taking out ore of lower grade. Drifts and stopes on the 215-foot level show that the voin varies in width from four to twenty feet and some of the assays have been running from has been \$20 per ton. A cross-cut is to be driven at once to cut this ore body on the 300-foot level.

On the Big Pine property, about 400 feet from the main shaft of the Big Four company, lessees have exposed a large body of gold-bearing schist, simin character to that found in the Four mine. Levels driven thirty Big Four mine. feet in one direction and forty feet at right angles to the first have been all in this material which, after screen- to the owners. ing, yields a good profit at the mill. A Few Comparisons. opening up this ore body, the power being supplied from the Big Four com-

A mill run of sixty-seven tons of ore averaging around \$60 per ton. Another bar of bullion, nearly equaling this in value, was turned over to the lessees from a mill run a short time ago. This ore constitutes screenings or fines from the product mined in a stope at a depth of but thirty feet. The re-ject, about 100 tons from the last shipment, is said to contain about \$10 per ton in gold.

#### Lease Is Rich.

From the Pittman-Fiulayson lease n the Litigation Hill Merger property the third mill run for December has been shipped to the War Eagle mill, the ore averaging throughout about \$20 per too and making aggregate ship-ments for the month of 500 tons. The ore comes from the 400-foot level of the incline shaft and a raise is now being driven from the 485-foot level to cut this ore body. This lease was formerly the Bath lease, and was pur-chased by the present owners for \$5000. Almost immediately after the purchase the present owners found a large body of rich ore, and from their first ship-ment netted sufficient to cover their initial investment and have since then made good profits. These men also se-cured an adjoining lease that has good

S. H. Brady, manager or consulting engineer for several of the leading Tonwith opah mining companies, is now, his associates, operating the Manhattan Earl property, and a production of fifground and the framework is already under cover, the ore bins nearing completion and the work of setting the machinery upon the concrete foundations will be in progress soon. It is expected that the plant will be in operation soon after the widdle of the drift shows two feet of good are. Lesson and two feet of good are because of the drift shows two feet of good are because of the good are good are because of the good are from development work in a drift on the 350-foot level. A raise from this level is following up the ore and the face of the drift shows two feet of good ore. Lessees made a large production from the upper levels of this property. A pocket is being cut at the properties in the district. It also here the standard of the properties in the district. It has been sending a steady stream of the upper allower grade ore that was left in the mine and it will be operating with this ore and the Mines Operating the lower grade ore that was left in the mine and it will be operating with this ore and the Mines Operating with this ore and the Mines Operating the lower grade ore that was left in the mine and it will be operating with this ore and the Mines Operating the lower grade ore that was left in the mine and it will be operating with this ore and the Mines Operating with this ore and the Mines Operating the lower grade ore that was left in the mine and it will be operating with this ore and the Mines Operating the purpose. plex pump, already on the ground, and sinking will continue to the 450 level at

> On the Manhattan Consolidated ore is being taken from the workings of the Mushett-Wittenberg lease, and two lots have lately been treated by the War Eagle and associated mills. Between the 130 and 250-foot levels there is a good tonnage of commercial ore exposed, as well as material of lower grade above the 130 level. The Keugrade above the 130 lovel. The Kendall-Douglass lease, on the same property, has produced a considerable quantity of pay ore and is still taking out ore on the 125-foot level and will proceed at once to open deeper levels. This will be done by driving into this territory from the Earl shaft, at a depth of 350 feet, and securing power for the air drills from the Earl compressor. It is revorted that negotiapressor. It is reported that negotiatheir object the consolidation of several important leases in the Manhattan district.

# Placer Operations.

Ore of excellent grade has been produced from the Toro Blanco property, and at last reports some ore of better than average grade had been broken than average grade had been broken and stored to await shipment. The old Manhattan Mining company, the property of which adjoins the Seyler-Humphrey, the scene of the original discovery of gold in the district, has been reorganized and lessees have found some ore of good grade in shallow workings. At many other points in the district work is in progress or planned district work is in progress or planned for the near future and ore of com-mercial grade has been exposed at scores of points over a wide area. Placer operations are still in prog-

ress along the Manhattan gulch, the mild weather having enabled the placer miners to continue with no serious in-terruption. Some of the dirt runs high in gold and occasionally nuggets of good size are found, a two-ounce nug-ret having been uncarthed a short

# Drives Off a Terror.

The chief executioner of death in the winter and spring months is pneumo-nia. Its advance agents are colds and grip. In any attack by one of these maladies no time should be lost in taking the best medicine obtainable to drive it off. Countless thousands have found this to be Dr. King's New Discovery. "My husband believes it has teach him from having pneumonis three covery. "My husband believes it has kept him from having pneumonia three or four times," writer Mrs. George W. Place, Rawsonville, Vt., "and for coughs, colds and croup we have never found its equal." Guaranteed for all bronchial affections. Price 50 cents and \$1.00. Trial bottle free at Schramm Johnson, drugs. (Advertisement).

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# Fractivally all the values on a scale that will permit of goed profite. It has been estimated that there is millions of dollars worth of metal that can be recovered by this new process. Some ore that recently been found by the Ontario comments are being made. The mine has paid the largest dividends of any property in the camp. Col. Wall obtained control of the Daly mine, which paid upwards of \$2,000,000 in dividends to its fortunate shareholders. Some work is being done in this mine, but not not considered by the same are not considered by the proposition of the source of the paid upwards of \$2,000,000 in dividends to its fortunate shareholders. Some work is being done in this mine, but not not considered by Messrs, Keith, Kearns, Judge and the most eventful epochs in the larger tonnage than at any time previous. Its ore production to date is vious. Its ore production to date is over. Five Great Mines; Several

history of mining both in Utah and the whole west. Five great mines are still in existence and several other smaller properties have produced rich ore and made fortunes for their owners. Dur- forward just previous to the holidays to be about \$25,000,000, over half of which has been paid out to shareholders in the form of dividends. After a lapse of over a year it came to be about \$25,000,000, over half of which has been paid out to shareholders in the form of dividends. made fortunes for their owners. Dur-ing the greater part of the period since with a dividend of \$312,500. In addiing the greater part of the period since the Ontario mine was started this the treasure equivalent to about two camp has been one of the largest silver-lead producing sections in the world. In many respects it has been one of the most wonderful mines in the Its wonderful riches have attracted some of the best engineering talent in

from those ore-bearing fissures and blanket veins and some of the best mine equipment ever seen in the west has been installed in those big bonanza propositions. It has required an immense amount of money and years of the most skillful mining to bring about fact have made it the most profitable industry in the west since the pioneers first came across the plains with their handcarts. Great was the gain to the men who eugaged in the mining business in the early days in Park City, yet there is a large area of ground still being worked and bringing in wealth

The big mines of today are controlled by a few companies. It has been the experience of that district from a lease on the Manhattan Cres-cent property last week yielded the lessees bullion valued at \$4000, the ore been divided up among a great many few concerns, and the camp has never been divided up among a great many owners. The advantage in this is shown by the fact that some of the deepest mining in the west has been carried on and the big properties have selden called upon shareholders for tope financial support by the assessment route. Probably no one district has hip been freerer from continuous assessbeen freerer from continuous assessments than Park City. This is accounted for in a large measure by the capable men who have managed these mines and partially to the ore occurrences. Whenever ore is found in Park City, it is invariably in large pay deposits, all of which can be shipped at a profit and which requires years of mining to extract. Some idea of this is given from the report which shows up to date there have been mined 100,000,000 ounces of silver, 175,00 ounces of gold, 300,000 tons of lead, 900,000 tons of copper and 30,000 tons of zinc. This ore was marketed for \$35,000,000, of which \$35,000,000 has been paid in dividends and \$50,000,000 for labor and

equipment.

Much has been added to metallurgy as a result of the various ores that have been produced in this region. Special processes have been adopted for refining the complex sulphides. A large percentage of the product has been a direct smelting proposition, while of late years three concentrating mills have been equipped in the dis-trict to treat the lower grade material. These plants have a combined capacity of 400 tons per day, and by the instal-lation of the latest devices a close recovery of values is made.

RE discoveries made in the early fore to the market almost continuously west and has exposed at the end of the year more faces of ore than ever before. the country, and in no other district buring the year an immense tonnage where the big vein deposits exist has there been seen such magnificent development.

Millions of dollars have been wrung from those ore-bearing fissures and of dollars. The mine on the surface of dollars. The mine on the surface of dollars. and underground has been equipped with the latest electric appliances and is prepared with ample appliances for carrying on mining operations to every part of its vast territory, which com-prises about 2200 acres. Only about one-third of the company ground has been explored and there are now over \$100 to \$200 per tou, while the general average of the ore shipped to the mill investments have been ample and in ings in ore out into the new ground. which is sure to result in more ore

#### The Daly-Judge.

The Daly-Judge.

Daly-Judge is the newest of the big producers of the district. This company owns the second largest acreage in the Park City zone, and is a regular shipper. It has shown more zinc ore than any of the mines in that vicinity and from this product a considerable portion of its revenue came during the early stages of development. Of more recent date this character of ore has been replaced by a nilver-lead product in the deeper workings and for several years the company has been building up a comfortable surplus. During the past twelve months regular quarterly dividends of 15 cents a share have been paid, while the earnings for each quarter have been considerably in excess of this amount. It paid an extra dividend in December making its total disbursements \$225,000 for 1912, and a surplus has been accumulated in excess of \$500,000. By the extension of the Ontario drain tunnel this mine is drained several hundred feet below the ore exposed up to the present time, and another tunnel is being run from the Snake Creek side of the range which will permit of working the ground from either side of the mountain. This property is splendidly managed, is equipped with heavy machinery and a modern mill plant for treating the second class product. It is destined to be a profitable mining proposition of a number of years to come.

The Daly West was one of the big bonanza proposition as is evidenced by its

able mining proposition for a number of years to come.

The Daly West was one of the big bonanza proposition as is evidenced by its dividends which have amounted to \$6,579,000. During the past year its profit disbursements amounted to \$26,000. The company has been mining a high grade aliver-lead product down to the 1600 level. From the 1700 level to a depth of over 2000 feet the management is mining second class ore which is treated in the mill plant. The company is still mining some high grade ore from the old workings in the upper levels. It is the second largest producer in the camp, though its earnings are not as large as they were in the early days when it was mining its richest ore. The management has hopes of developing large low grade deposits in the lower workings, which would give it years of profitable operations. In the event that larger ore bodies are found the proposition of building a larger mill plant, possibly at the mouth of the Ontario drain tunnel, will be taken up. This would reduce the operating expense as the ore could be sent out through the tunnel from the mine instead of being raised to the surface, as is the practice at this time.

The Old Ontario.

# The Old Ontario.

year.

Several other properties in the camp are being operated on a small scale. It is the opinion of engineers who have made a study of the geology of the district and the ore occurrences that there will be found a large tonnage of ore of a commercial grade. While the camp has produced great wealth in the past it is apparent that there is years of profitable mining to be done.

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